

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.

Esmer
A292.9
So 3Wat

FEDERAL STATE PRIVATE
COOPERATIVE SNOW SURVEYS

U. S. DEPT. OF AGRICULTURE
NATIONAL AGRICULTURAL LIBRARY

FEB 25 1966

CURRENT SERIAL RECORDS

WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
IDAHO

UNITED STATES DEPARTMENT of AGRICULTURE--SOIL CONSERVATION SERVICE,
and

IDAHO STATE RECLAMATION ENGINEER

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

||||||| AS OF |||||||
FEB. 1, 1966

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

To Recipients of Water Supply Outlook Reports:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Listed below are water supply outlook reports based on Federal-State-Private Cooperative snow surveys. Those published by the Soil Conservation Service may be obtained from Soil Conservation Service, Room 507, Federal Building, 701 N. W. Glisan, Portland, Oregon 97209.

PUBLISHED BY SOIL CONSERVATION SERVICE

<u>REPORTS</u>	<u>ISSUED</u>	<u>LOCATION</u>	<u>COOPERATING WITH</u>
RIVER BASINS			
WESTERN UNITED STATES	MONTHLY (FEB.-MAY)	PORTLAND, OREGON	ALL COOPERATORS
BASIC DATA SUMMARY	OCTOBER 1	PORTLAND, OREGON	ALL COOPERATORS
STATES			
ALASKA	MONTHLY (MAR.-MAY)	PALMER, ALASKA	ALASKA S.C.D.
ARIZONA	SEMI-MONTHLY (JAN.15 - APR.1)	PHOENIX, ARIZONA	SALT R. VALLEY WATER USERS ASSOC. ARIZ. AGR. EXP. STATION
COLORADO AND NEW MEXICO	MONTHLY (FEB.-MAY)	FORT COLLINS, COLORADO	COLO. STATE UNIVERSITY COLO. STATE ENGINEER N. MEX. STATE ENGINEER
IDAHO	MONTHLY (JAN.-JUNE)	BOISE, IDAHO	IDAHO STATE RECLAMATION ENGINEER
MONTANA	MONTHLY (JAN.-JUNE)	BOZEMAN, MONTANA	MONT. AGR. EXP. STATION
NEVADA	MONTHLY (JAN.-MAY)	RENO, NEVADA	NEVADA DEPT. OF CONSERVATION AND NATURAL RESOURCES - DIVISION OF WATER RESOURCES
OREGON	MONTHLY (JAN.-JUNE)	PORTLAND, OREGON	OREG. STATE UNIVERSITY OREGON STATE ENGINEER
UTAH	MONTHLY (JAN.-JUNE)	SALT LAKE CITY, UTAH	UTAH STATE ENGINEER
WASHINGTON	MONTHLY (FEB.-JUNE)	SPOKANE, WASHINGTON	WN. STATE DEPT. OF CONSERVATION
WYOMING	MONTHLY (FEB.-JUNE)	CASPER, WYOMING	WYOMING STATE ENGINEER

PUBLISHED BY OTHER AGENCIES

<u>REPORTS</u>	<u>ISSUED</u>	<u>AGENCY</u>
BRITISH COLUMBIA	MONTHLY (FEB.-JUNE)	WATER RESOURCES SERVICE, DEPT. OF LANOS, FOREST AND WATER RESOURCES, PARLIAMENT BLDG., VICTORIA, B.C., CANADA
CALIFORNIA	MONTHLY (FEB.-MAY)	CALIF. DEPT. OF WATER RESOURCES, P.O. BOX 388, SACRAMENTO, CALIF.

WATER SUPPLY OUTLOOK
and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS
for
IDAHO

Report prepared by

MORLAN W. NELSON Snow Survey Supervisor

and

J. ALDEN WILSON Asst. Snow Survey Supervisor

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
P.O. BOX 38, BOISE, IDAHO 83701

Issued by

LEE T. MORGAN
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

CARL E. TAPPAN
STATE RECLAMATION ENGINEER
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

TABLE of CONTENTS

WATER SUPPLY OUTLOOK FOR IDAHO	1-2
SNOW WATER DEPTHS ACCUMULATION	3
COMPARISON OF SNOW COVER	4
SNOW WATER DEPTHS MAP.	5
STREAMFLOW FORECASTS	6
PROSPECTIVE STREAMFLOW MAP	7
STREAMFLOW FORECASTS CHART	8
VALLEY PRECIPITATION	9
RESERVOIR STORAGE.	10
RESERVOIR STORAGE MAP.	11

APPENDIX

UPPER COLUMBIA and LOWER SNAKE RIVER BASINS -

Snow Course Location Map and Index

Snow Survey Data for Pend Oreille-Priest, Spokane, Palouse,
Clearwater, Salmon and Lemhi River Watersheds. 1-2

Soil Moisture Data for Spokane, Clearwater, Salmon
and Lemhi River Watersheds 3

MIDDLE SNAKE RIVER BASIN - NORTHSIDE -

Snow Course Location Map and Index

Snow Survey Data for Little Lost, Big Lost, Little Wood,
Big Wood, Boise, Payette and Weiser River Watersheds . . . 4-5

Soil Moisture Data for Little Lost, Little Wood,
Big Wood and Boise River Watersheds. 6

MIDDLE SNAKE RIVER BASIN - SOUTHSIDE -

Snow Course Location Map and Index

Snow Survey Data for Raft River, Goose Creek, Salmon Falls
Creek, Bruneau and Owyhee River Watersheds 7

Soil Moisture Data for Raft River, Goose Creek, Salmon Falls
Creek, Bruneau and Owyhee River Watersheds 8

UPPER SNAKE RIVER BASIN -

Snow Course Location Map and Index

Snow Survey Data for Camas-Beaver Creeks, Henrys Fork River,
Teton River, Willow Creek, Sand Creek, Blackfoot River,
and Portneuf River Watersheds. 9-10

Soil Moisture Data for Henrys Fork River, Teton River,
and Portneuf River Watersheds. 10

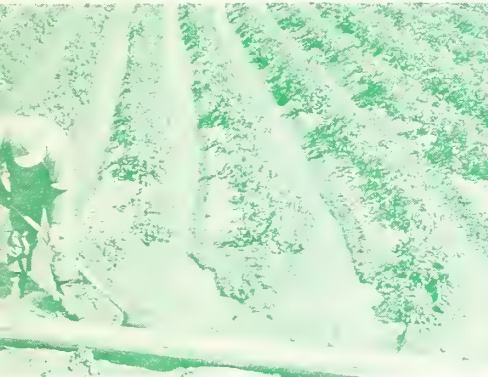
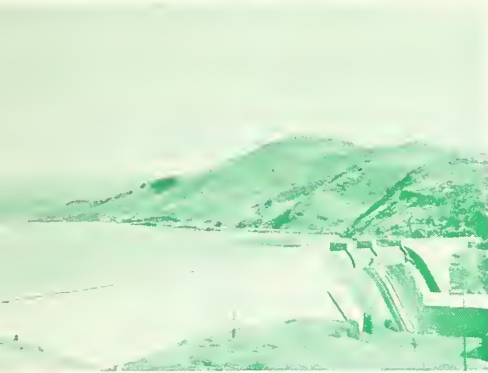
GREAT BASIN -

Snow Course Location Map and Index

Snow Survey Data for Bear River, Montpelier Creek
and Mink Creek Watersheds. 11

Soil Moisture Data for Bear River and Montpelier
Creek Watersheds 11

WATER SUPPLY OUTLOOK for IDAHO



GENERAL SUMMARY FOR FEBRUARY 1, 1966

Snowfall during the month of January was slightly above normal reducing some of the deficiency occurring before the first of the year. Particularly heavy storms occurred in the first week of January. Snow cover is spotted and varies from 63% of normal on the Salmon Falls Creek to 120% on the Palouse River near Moscow. In general, however, snow cover is below normal throughout the state as of the first of February. Usually about two-thirds of the total snow pack for the season is already down by February 1st.

Soil moisture sites indicate that moisture conditions beneath the snow pack are better than average. There has been no snow-melt at the higher elevations such as occurred last year. Though the soil beneath the snow pack is not saturated, very little snow-water will be absorbed by the soil this spring when the major snow-melt begins. The prospects for a normal water supply in Idaho are good when the combination of near normal snow pack, good soil moisture and excellent carryover storage in the reservoirs are considered.

The streamflow forecasts made for the April through September period are considerably higher than the snow cover would indicate. This is true because the high water producing drainages on each river have good snow water

and soil moisture conditions. The forecasts made this early in the season are subject to a greater percentage of error than those made when the maximum snow pack is down for the season. In general, corrections from these forecasts are relatively slight unless a major change in storm trends occur.

The solar-powered telemetry measurement system at Trinity Mountain continues to operate efficiently. The readings from this site are varying in accordance with those made on the ground at similar snow courses.

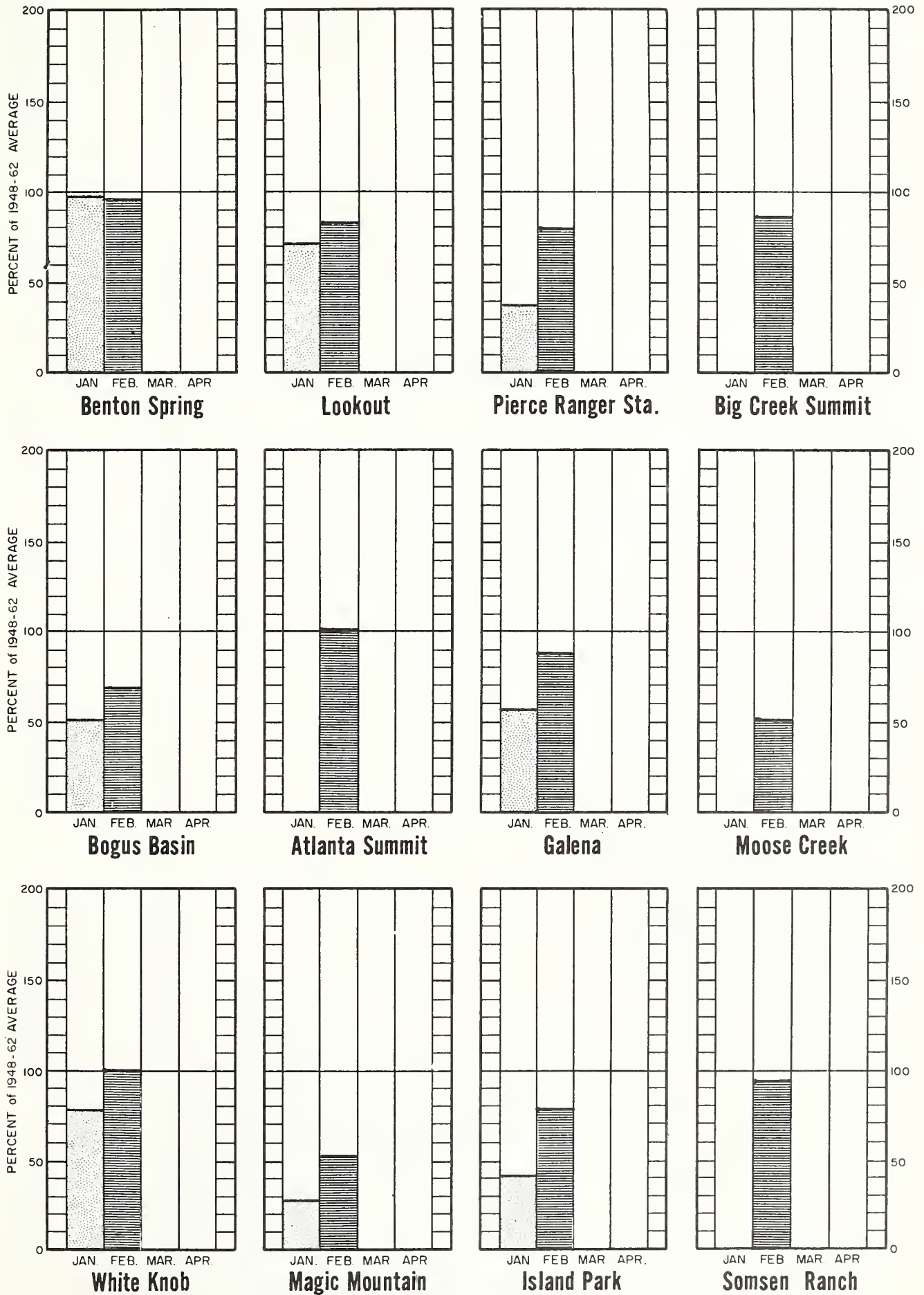
Soil temperatures are normal for this time of year, and soils, where protected by snow cover, are not frozen. The smaller streams, such as Willow Creek and Sand Creek in southeastern Idaho, do not have enough snow cover below 6,000 feet to prevent soil freezing. Frozen soil is a hazard which contributes to heavy runoff if warm rains and snow-melt occur suddenly. The snow pack on these two drainages, however, does not pose a threat from the standpoint of snow water on the watershed at this time.

SNOW WATER DEPTHS ACCUMULATION

For Selected Snow Courses

As Compared To 1948-62 15Yr. Average

FEBRUARY 1, 1966



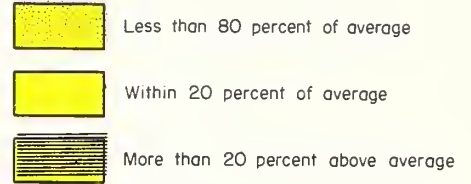
COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF :	
		LAST YEAR	1948-62 AVERAGE
<u>UPPER COLUMBIA RIVER BASIN</u>			
Kootenai River	10	109	116
Pend Oreille River	19	61	81
Clark Fork River	14	53	73
Flathead River	5	73	91
Priest River	2-4	83	102
Spokane River	1-8	73	82
<u>LOWER SNAKE RIVER BASIN</u>			
Palouse River	5	96	120
Clearwater River	6-17	65	98
Salmon River	9-16	44	74
Lemhi River	7	36	--
<u>MIDDLE SNAKE RIVER BASIN - Northside</u>			
Little Lost River	5	36	78
Big Lost River	1-8	39	100
Little Wood River	3-4	48	115
Big Wood River	7-9	39	82
Camas-Long Tom-Canyon Creeks	3	40	--
Boise River	11-16	42	86
Payette River	9-15	50	90
Weiser River	3	56	--
<u>MIDDLE SNAKE RIVER BASIN - Southside</u>			
	18	--	69
Raft River	1-4	47	64
Goose-Trapper Creeks	1-3	48	89
Salmon Falls Creek	8-10	39	63
Bruneau River	4	44	80
Owyhee River - Idaho	4	41	67
<u>UPPER SNAKE RIVER BASIN</u>			
Upper Snake - Wyoming	20	58	89
Camas-Beaver Creeks	2	48	88
Medicine Lodge Creek	2	37	--
Henrys Fork River	4	47	82
Teton River	2-4	50	62
Blackfoot River	3-4	55	96
Portneuf River	2	52	82
<u>GREAT BASIN</u>			
Bear River	9	60	97
Montpelier Creek	4	46	--
Mink Creek	3-7	42	70
Cub River	2	58	79
Malad River	2	42	77

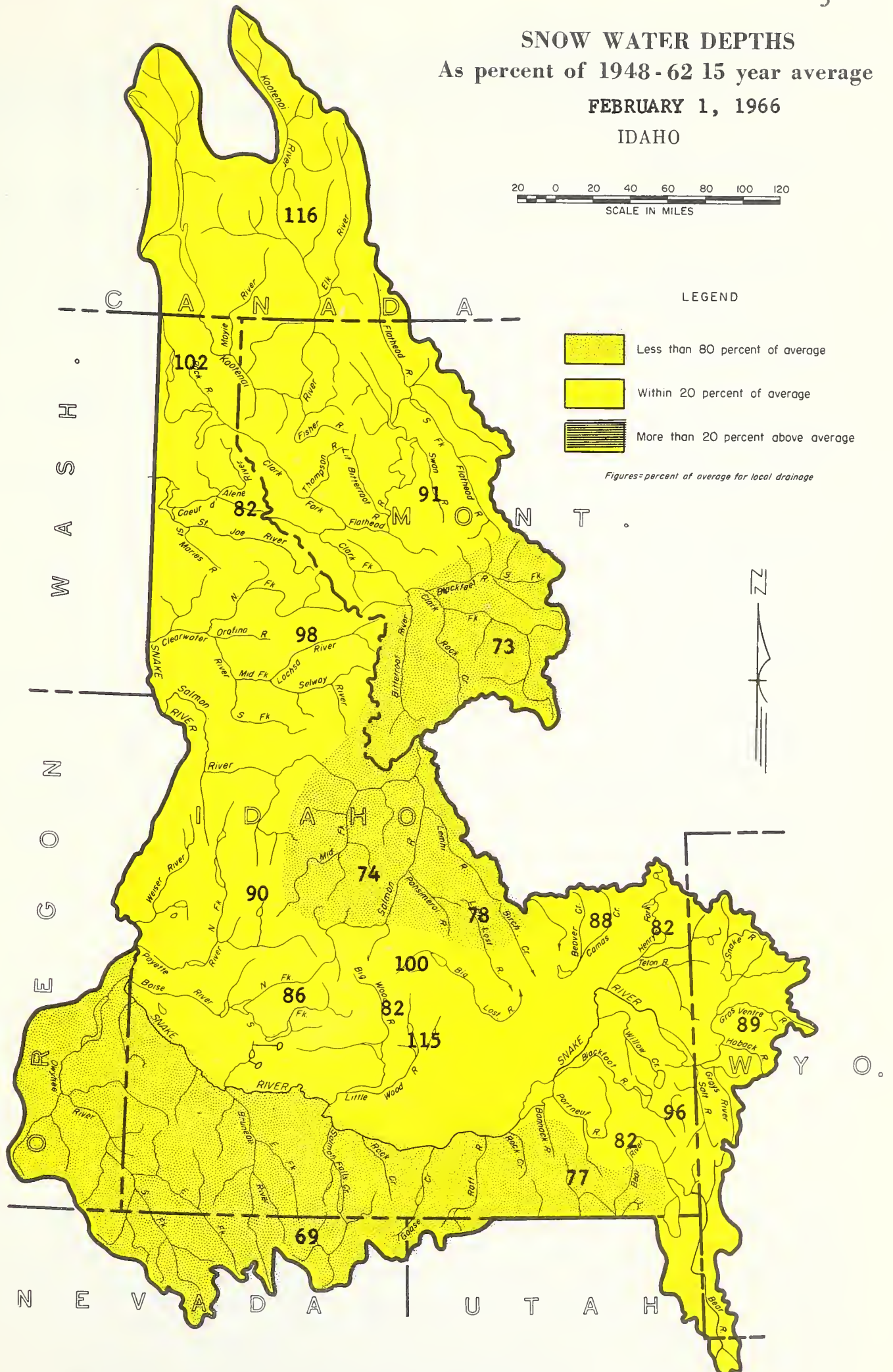
SNOW WATER DEPTHS
 As percent of 1948-62 15 year average
FEBRUARY 1, 1966
IDAHO

20 0 20 40 60 80 100 120
 SCALE IN MILES

LEGEND



Figures=percent of average for local drainage



STREAMFLOW FORECASTS^c (1,000 Ac. Ft.)

STREAM and/or FORECAST POINT	FORECAST THIS YEAR	FORECAST PERIOD	LAST YEAR	1948-1962 AVERAGE	THIS YEAR AS PERCENT OF AVERAGE
------------------------------	-----------------------	-----------------	-----------	----------------------	---------------------------------------

KOOTENAI RIVER

Leonia	(at)	9970	Apr-Sep	9133	9327	107
--------	------	------	---------	------	------	-----

SPOKANE RIVER

Post Falls <u>1/</u>	(at)	2800	Apr-Sep	3345	3413	82
----------------------	------	------	---------	------	------	----

SNAKE RIVER

Heise <u>2/</u>	(nr)	3500	Apr-Sep	5266	3868	90
-----------------	------	------	---------	------	------	----

BIG LOST RIVER

Mackay <u>3/</u>	(nr)	165	Apr-Sep	334	147	112
------------------	------	-----	---------	-----	-----	-----

BIG WOOD RIVER

Hailey <u>4/</u>	(at)	300	Apr-Sep	584	317	95
------------------	------	-----	---------	-----	-----	----

BOISE RIVER

Boise <u>5/</u>	(nr)	1500	Apr-Sep	2783	1632	92
-----------------	------	------	---------	------	------	----

PAYETTE RIVER

Horseshoe Bend <u>6/</u>	(nr)	1800	Apr-Sep	2810	1988	91
--------------------------	------	------	---------	------	------	----

OWYHEE RIVER

Lake Owyhee net inflow <u>7/</u>		225	Apr-Sep	411	381	59
-------------------------------------	--	-----	---------	-----	-----	----

SALMON RIVER

Whitebird	(at)	6200	Apr-Sep	10254	6949	89
-----------	------	------	---------	-------	------	----

CLEARWATER RIVER

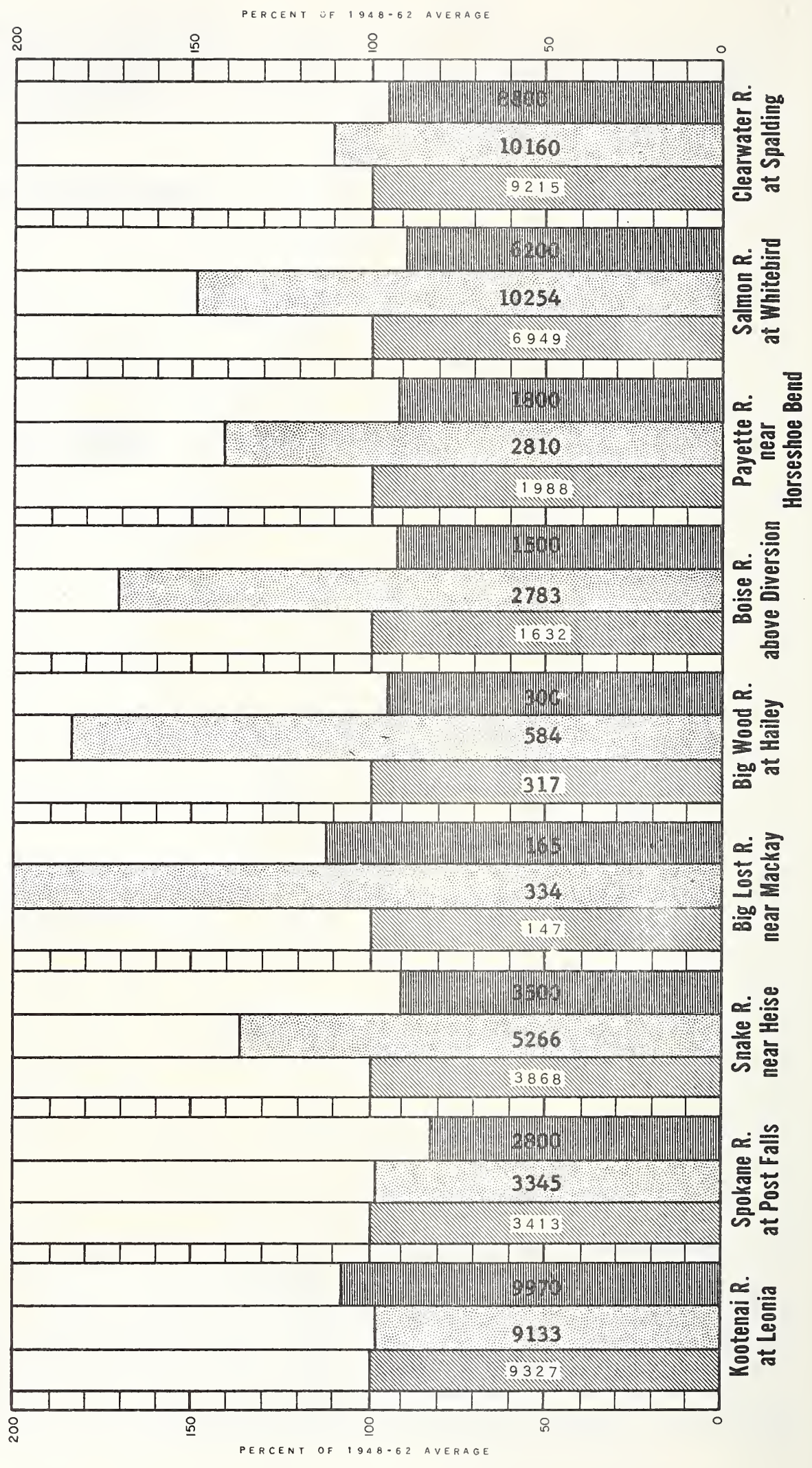
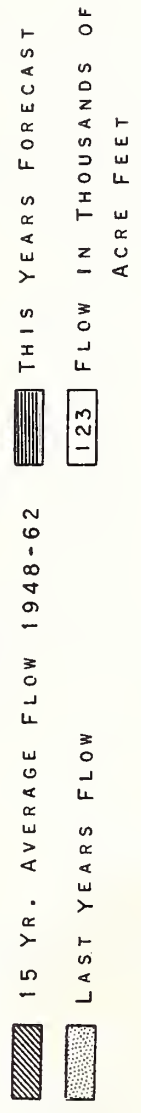
Spalding	(at)	8800	Apr-Sep	10160	9215	95
----------	------	------	---------	-------	------	----

(c) Assuming normal meteorological conditions.

1/ Observed flow corrected for storage in Coeur d'Alene Lake and diversions by Spokane Valley Farms Company and Rathdrum Prairie canals. 2/ Corrected for storage in Jackson Lake and Palisades. 3/ Observed flow corrected for storage in Mackay Reservoir and diversion in Sharp Ditch. 4/ Combined discharge Big Wood River and Big Wood Slough corrected for diversions. 5/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 6/ Corrected for storage in Cascade and Deadwood Reservoirs. 7/ U.S.B.R. records of inflow.

STREAMFLOW FORECASTS (April through September period)
Based on Snow Surveys made on approximately

FEBRUARY 1, 1966



VALLEY PRECIPITATION 1/

Division Averages and Departures

In Inches

DRAINAGE DIVISIONS	Fall		Winter	
	Sep. -Oct. -Nov. 1965		Dec. 1965-Jan. 1966	
	Observed	Departure <u>2/</u>	Observed	Departure <u>2/</u>
Kootenai, Canada & U. S.	6.25	-0.67	8.26	+1.51
Flathead	4.72	-0.87	4.18	-0.23
Clark Fork	3.36	+0.51	1.61	-0.33
Pend Oreille-Spokane	5.44	-3.50	6.83	-1.72
Upper Snake	4.93	+0.23	3.07	-1.57
Snake River Plain	1.72	-0.27	1.35	-0.64
Salmon-Payette-Boise	3.17	-1.24	3.26	-1.84
Clearwater	4.46	-2.58	3.83	-2.00
Southeastern Oregon	2.39	+0.19	0.99	-1.46

1/ Preliminary analysis by U. S. Weather Bureau from data furnished by Meterological Service of Canada and U. S. Weather Bureau.

2/ Departure from 15-year (1948-62 drainage division average.

RESERVOIR STORAGE (1,000 Ac. Ft.)

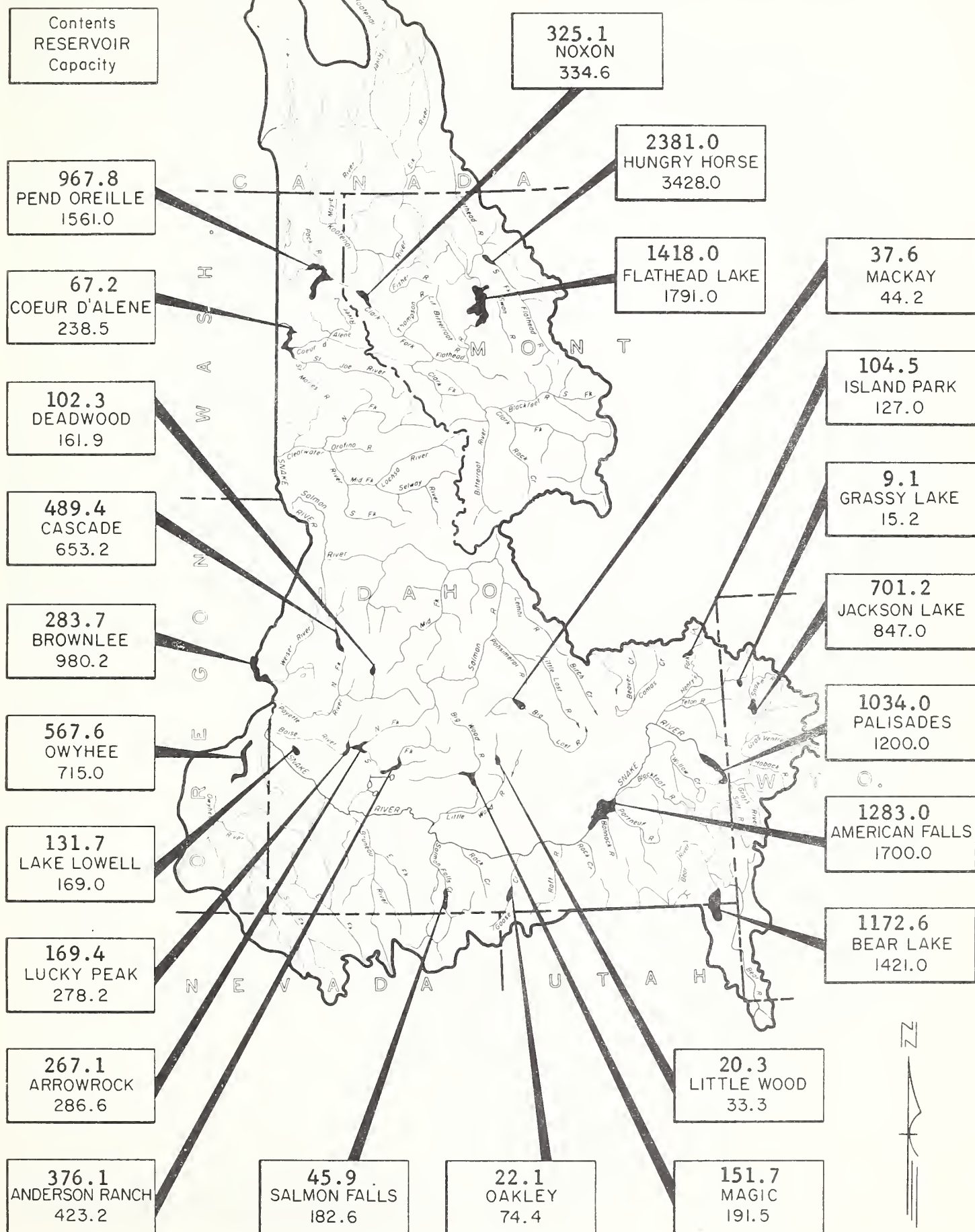
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1948-62 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	2381.0	2811.0	2693.4*
Flathead	1791.0	1418.0	1384.0	1042.9
Pend Oreille	1561.0	967.8	1042.9	728.1
Noxon	334.6	325.1	331.0	--
<u>Spokane</u>				
Coeur d'Alene	238.5	67.2	237.5	130.8
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	847.0	701.2	610.5	417.6
Palisades	1200.0	1034.0	972.6	--
American Falls	1700.0	1283.0	1241.8	1301.0
Island Park	127.0	104.5	116.5	98.6
Grassy Lake	15.2	9.1	12.0	11.6
Brownlee	980.2	283.7	881.7	--
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	22.1	16.9	12.5
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	45.9	36.2	17.8
<u>Big Lost</u>				
Mackay	44.2	37.6	34.8	28.5
<u>Big Wood</u>				
Magic	191.5	151.7	115.8	97.4
<u>Little Wood</u>				
Little Wood	30.0	20.3	18.9	--
<u>Fish Creek</u>				
Carey Valley	14.4	8.7	--	--
<u>Boise</u>				
Anderson Ranch	423.2	376.1	358.5	163.4
Arrowrock	286.6	267.1	282.3	196.1
Lucky Peak	278.2	169.4	118.0	--
Lake Lowell (Deer Flat)	169.0	131.7	143.5	89.4
<u>Owyhee</u>				
Owyhee	715.0	567.6	665.8	752.4
<u>Payette</u>				
Cascade	653.2	489.4	441.0	--
Deadwood	161.9	102.3	93.0	65.7
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	1172.6	905.7	883.7
*Period of record.				

RESERVOIR STORAGE

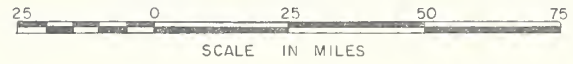
USABLE CONTENTS (1,000 Acre Feet)

FEBRUARY 1, 1966

50 0 50 100 150
SCALE IN MILES

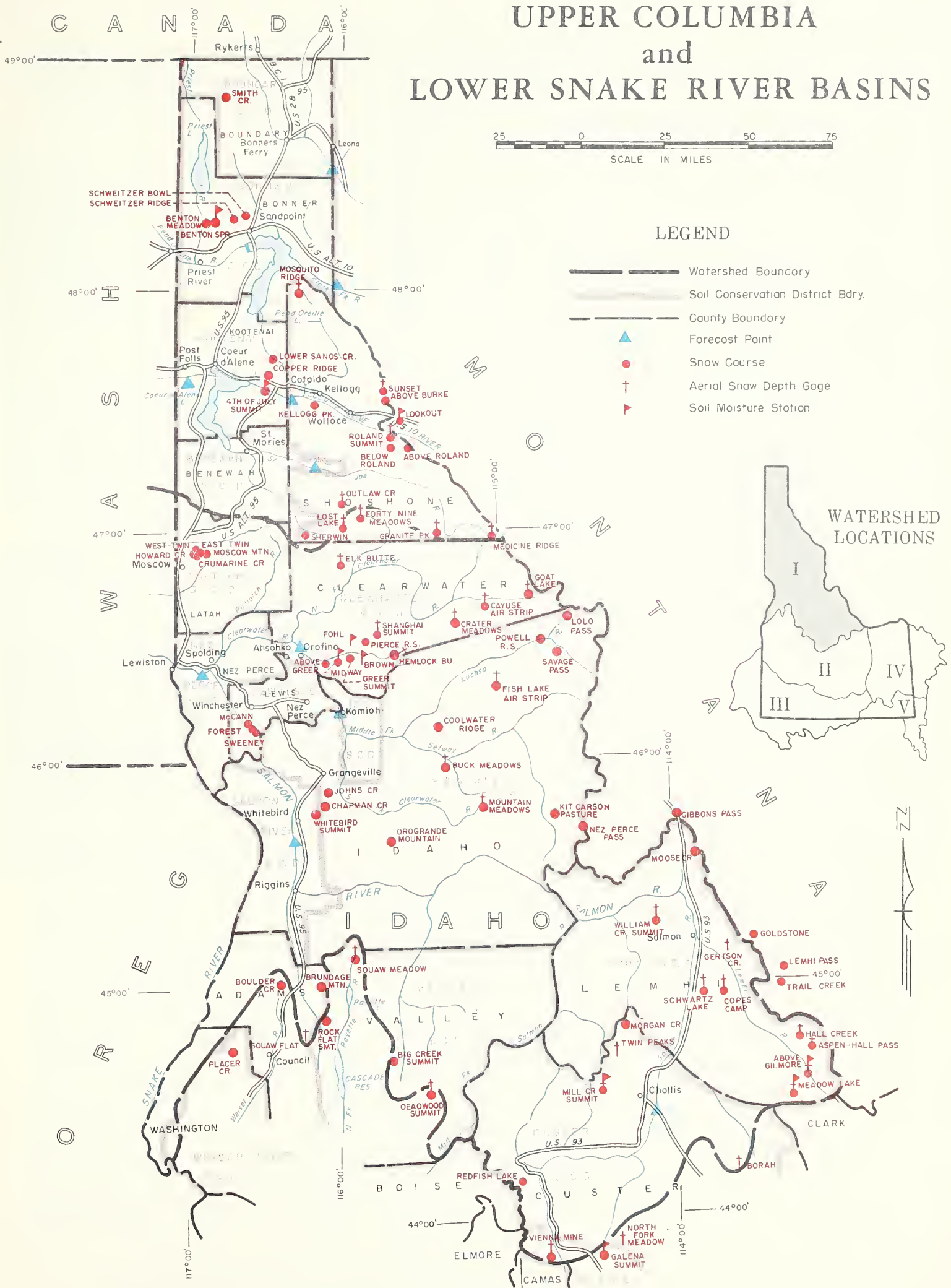
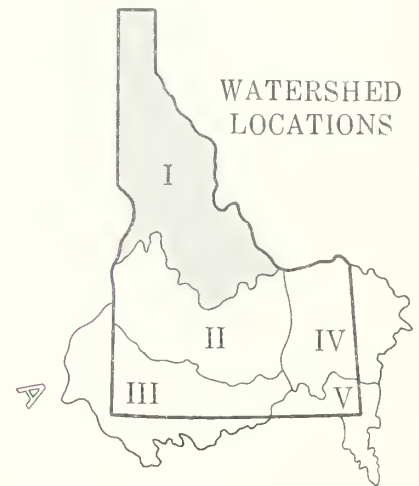


UPPER COLUMBIA and LOWER SNAKE RIVER BASINS



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- ▲ Forecast Point
- Snow Course
- † Aerial Snow Depth Gage
- ▶ Soil Moisture Station



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR ANO	LONG.	

UPPER COLUMBIA BASIN

KOOTENAI RIVER

16A1	I	Smith Creek	29	64N	3W	4800
------	---	-------------	----	-----	----	------

PEND OREILLE - PRIEST RIVER

16A2	I	Benton Meadow	27	58N	4W	2344
16A3M	I	Benton Spring	30	58N	3W	4900
16A6	I	Schweitzer Bowl	20	58N	2W	4500
16A5	I	Schweitzer Ridge	19	58N	2W	6100

SPOKANE RIVER

15B8	I	Above Burke	11	48N	5E	4100
15B7	I	Above Roland	35	47N	6E	4350
15B6	I	Below Roland	34	47N	6E	3770
16B2	I	Copper Ridge	6 & 7	50N	1W	4800
16B3M	I	Fourth of July Summit	6	49N	1W	3100
15B13A	I	Granite Peak	3	42N	8E	6000
16B5A	I	Kellogg Peak	19	48N	3E	5560
15B2M	I	Lookout	4	47N	6E	5250
16B1	I	Lower Sands Creek	32	51N	1W	3400
15B4A	I	Medicine Ridge	24	43N	10E	6150
16A4A	I	Mosquito Ridge	5	54N	2E	5110
15B12A	I	Outlaw Creek	19	44N	5E	3750
15B5A	I	Roland Summit	26	47N	6E	5200
16C1	I	Sherwin	28 & 33	42N	1E	3200
15B9A	I	Sunset	28	49N	5E	5600

LOWER SNAKE BASIN

PALOUSE RIVER

16C6	I	Crumarine Creek	24	40N	5W	3500
16C3	I	East Twin	13	40N	5W	4000
16C5	I	Howard Creek	14	40N	5W	3500
16C2	I	Moscow Mountain	18	40N	4W	4800
16C4	I	West Twin	14	40N	5W	4200

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR AND	LONG.	

CLEARWATER RIVER

16C11	I	Above Greer	14	35N	2E	1240
16C14m	I	Brown	11	35N	3E	3100
15D5A	I	Buck Meadows	26	31N	8E	5600
15C3A	I	Cayuse Airstrip	4	38N	11E	3700
15C7	I	Coolwater Mountain	32	33N	8E	6200
15C9A	I	Crater Meadows	2	37N	9E	6100
16C15A	I	Elk Butte	6	40N	3E	5550
15C2A	I	Fish Lake Airstrip	35	35N	11E	5000
15C8m	I	Fohl	16	36N	5E	3450
16C9	I	Forest	1	32N	3W	4550
15B3A	I	Forty-nine Meadows	6	43N	5E	5000
14C9A	I	Goat Lake	4	38N	13E	6600
16C13	I	Greer Summit	13	35N	2E	3000
15C6A	I	Hemlock Butte	7	36N	7E	5500
14D3	I	Kit Carson Pasture	4	27N	16E	5020
14C5	I	Lolo Pass	16	38N	15E	5230
15B14A	I	Lost Lake	16	43N	4E	6000
16C8	I	McCann	25	33N	3W	4300
16C12M	I	Midway	14	35N	2E	2200
15D6A	I	Mountain Meadows	9	27N	10E	6300
14D1	M	Nez Perce Pass	25	1S	24W	6575
15D4	I	Orogrande Mountain	24	27N	6E	7800
15C5	I	Pierce Ranger Station	2	36N	5E	3170
14C6	I	Powell Ranger Station	33	37N	14E	4230
14C4	I	Savage Pass	18	36N	15E	6600
15C4A	I	Shanghai Summit	7	37N	6E	4600
16C10	I	Sweeney	1	32N	3W	4435

SALMON RIVER

13E19MA	I	Above Gilmore	13	13N	26E	8200
13E21A	I	Aspen-Hall Pass	6	16N	28E	8110
15E2	I	Big Creek Summit	24	15N	5E	6600
13E8a	I	Borah	21	10N	23E	8250
16D6	I	Brundage Mountain	7	19N	3E	7700
16D2	I	Chapman Creek	16	29N	2E	4215
13E17A	I	Copes Camp	36	18N	22E	7500
13D17a	I	Gertson Creek	22	22N	23E	8050
13D2	M	Gibbons Pass	4	2S	19W	7100
13D9	M	Gold Stone	11	8S	16W	8100
13E20A	I	Hall Creek	1	16N	27E	7560
16D3	I	Johns Creek	9	29N	2E	3805
13E1	M	Lemhi Pass	9	10S	15W	7480
13E18MA	I	Meadow Lake	24	13N	26E	9100
14E1MA	I	Mill Creek Summit	8	13N	17E	8870
13D16	I	Moose Creek	22 & 26	27N	21E	6200
14E4	I	Morgan Creek	32	18N	19E	7580
14E2	I	Redfish Lake	3	9N	13E	6600
13E16A	I	Schwartz Lake	34	18N	22E	8500
13E2	M	Trail Creek	15	10S	15W	7090
14E3a	I	Twin Peaks	28	15N	17E	10300
14F4A	I	Vienna Mine	32	6N	14E	8900
16D5	I	Whitebird Summit	17	29N	2E	4390
14D4	I	Williams Creek Summit	34	21N	20E	7800

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MDISTURE STATION AND PRECIPITATION GAGE.
10J7 m	SOIL MOISTURE STATION ONLY.
10J7 a	AERIAL MARKER ONLY.
10J7 p	STORAGE PRECIPITATION GAGE ONLY.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

UPPER COLUMBIA RIVER BASINPEND OREILLE - PRIEST RIVER

Benton Meadow	16A2	2344	1/31	24	6.7	8.9	5.6
Benton Spring	16A3	4900	1/31	46	14.1	15.7	14.7
Schweitzer Bowl	16A6	4500	1/28	74	21.3	23.3	--
Schweitzer Ridge	16A5	6100	1/28	92	29.2	38.3	--

SPOKANE RIVER

#Forty-nine Meadows (A)	15B3	5000	1/29	70	21.3	28.0	--
Fourth of July Summit	16B3	3100	2/1	28	8.3	8.9	--
Granite Peak (A)	15B13	6000	1/30	93	28.3	40.9	--
Halo Lake (A)	15C10	6600	Delayed		--	--	--
Lookout	15B2	5250	1/31	71	21.6	27.7	26.4
#Lost Lake (A)	15B14	6000	1/30	92	28.0	49.1	--
Medicine Ridge (A)	15B4	6150	1/30	115	35.0	46.4	--
Outlaw Creek (A)	15B12	3750	1/29	42	12.4	11.6	--
Sherwin	16C1	3200	1/29	38	10.0	12.4	--

LOWER SNAKE RIVER BASINPALOUSE RIVER

Crumarine Creek	16C6	3500	1/30	30	8.2	8.3	5.8*
East Twin	16C3	4000	1/30	42	13.2	12.3	10.1*
Howard Creek	16C5	3500	1/28	24	6.7	6.3	3.6*
Moscow Mountain	16C2	4800	1/30	48	14.0	15.8	14.0*
West Twin	16C4	4200	1/28	33	8.8	10.5	8.8*

CLEARWATER RIVER

Above Greer	16C11	1240	1/31	0	0.0	0.5	--
Buck Meadows	15D5	5600	1/26	46	10.8	21.5	--
Cayuse Airstrip (A)	15C3	3700	1/29	35	10.4	14.4	8.0*
Coolwater Mountain (R)	15C7	6200	2/1	--	11.0	--	--
Crater Meadows (A)	15C9	6100	1/30	72	21.9	40.9	--
Elk Butte (A)	16C15	5550	1/29	83	25.2	34.4	--
Fish Lake Airstrip (A)	15C2	5000	1/29	85	25.8	35.8	27.1*
Forest	16C9	4550	1/27	28	6.8	8.0	6.0*
Forty-nine Meadows (A)	15B3	5000	1/29	70	21.3	28.0	--
Goat Lake (A)	14C9	6600	1/30	86	26.1	42.3	--
#Granite Peak (A)	15B13	6000	1/30	93	28.3	40.9	--
Greer Summit	16C13	3000	1/31	T	T	2.7	--
#Halo Lake (A)	15C10	6600	Delayed		--	--	--
Hemlock Butte (A)	15C6	5500	1/29	93	28.3	46.0	--
Hemlock Butte (SP)	15C6	5500	2/1	--	20.4	--	--
Hemlock Butte (R)	15C6	5500	2/1	--	23.1	--	--

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b
Lost Lake (A)	15B14	6000	1/30	92	28.0	49.1	--
McCann	16C8	4300	1/27	24	6.4	5.8	6.5*
#Medicine Ridge (A)	15B4	6150	1/30	115	35.0	46.4	--
Midway	16C12	2200	1/31	T	T	1.3	--
Mountain Meadows	15D6	6300	1/26	40	10.3	28.6	--
Pierce Rgr. Sta.	15C5	3170	1/27	29	7.5	12.6	9.5*
Shanghai Summit (A)	15C4	4600	1/29	61	18.5	28.0	--
Sweeney	16C10	4435	1/27	21	5.2	5.9	6.5*

SALMON RIVER

Big Creek Summit	15E2	6600	1/30	64	19.4	42.1	22.6*
Borah (A)	13E8	8250	1/27	16	4.2	6.7	--
#Boulder Creek	16D1	5500	1/27	52	16.4	29.0	--
Brundage Mountain	16D6	7700	1/27	84	26.8	--	--
Chapman Creek	16D2	4215	1/28	8	1.7	4.6	3.3*
#Deadwood Summit (A)	15E4	7000	1/28	96	30.6	58.5	34.8*
#Galena Summit	14F12	8795	1/29	43	12.2	32.0	15.1*
#Gibbons Pass Mont.	13D2	7100	1/31	36	9.4	23.8	15.7*
Johns Creek	16D3	3805	1/28	5	0.7	3.4	2.9*
Mill Creek Summit (A)	14E1	8870	1/27	51	14.5	35.2	--
Moose Creek	13D16	6200	1/28	26	5.8	17.0	11.4*
Morgan Creek Summit	14E4	7580	1/27	29	6.9	22.6	--
Redfish Lake	14E2	6600	1/28	20	4.6	--	--
#Rock Flat Summit	16E1	5200	1/27	38	9.2	19.6	12.6
#Squaw Flat (A)	16E5	6230	1/28	61	18.5	31.0	--
Twin Peaks (A)	14E3	10300	1/27	45	12.8	33.3	--
Vienna Mine (A)	14F4	8900	1/28	51	14.5	40.2	--
Whitebird Summit	16D5	4390	1/28	15	3.3	7.9	6.0*

Lemhi River

Above Gilmore (A)	13E19	8200	1/27	22	5.2	16.1	--
Aspen-Hall Pass	13E21	8110	1/27	24	5.7	12.3	--
Copes Camp (A)	13E17	7500	1/27	17	4.0	12.3	--
Gertson Creek (A)	13D17	8050	1/28	10	2.4	13.7	--
Hall Creek (A)	13E20	7560	1/27	12	2.9	5.7	--
Meadow Lake (A)	13E18	9100	1/27	38	9.0	28.9	--
Schwartz Lake (A)	13E16	8500	1/27	40	9.5	19.3	--

(b) 1948-62, 15 year period. * Not located directly on this drainage. • Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>SPOKANE RIVER</u>							
Fourth of July Summit	3100	48	11.6	2/1	9.8	10.4	10.2
Lookout	5250	48	11.0	1/31	8.0	8.7	7.3
<u>CLEARWATER RIVER</u>							
Brown	3100	30	6.7	1/31	4.8	5.8 ^j	4.4
Fohl	3450	48	13.3	1/31	4.8	10.6 ^j	8.3
Midway	2200	36	6.1	1/31	4.9	5.0 ^j	4.9
<u>SALMON RIVER</u>							
Mill Creek Summit	8870	48	8.4	11/1	5.9*	3.9 ⁿ	6.2 ⁿ
<u>Lemhi River</u>							
Above Gilmore	8200	60	5.4	11/3	4.0*	2.7 ⁿ	2.9 ⁿ
Meadow Lake	9100	48	4.4	11/3	2.8*	1.8 ⁿ	2.0 ⁿ
* Fall Measurement n November Measurement j January Measurement							

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (inches)	WATER CONTENT (inches)	WATER CONTENT (inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

MIDDLE SNAKE RIVER BASIN - NORTHSIDELITTLE LOST RIVER

Fairview Guard Sta.	13E5	5850	1/27	13	3.4	5.4	3.5*
Lost-Garfield	13E3	5700	1/27	10	3.0	5.5	2.8*
Moonshine	13E6	7250	1/28	17	4.5	16.4	7.5*
Sawmill Canyon	13E4	6000	1/28	17	3.7	13.0	6.2*
Wet Creek Summit	13E7	8175	1/27	22	6.1	16.9	6.6*

BIG LOST RIVER

Cherry Creek Pass (A)	13F13	8900	1/28	8	2.1	4.0	--
Copper Basin (A)	13F2	8000	1/28	22	6.2	17.3	--
Iron Bog	13F11	7650	1/26	36	11.2	--	--
Leadbelt	13F12	6800	1/26	24	6.7	15.5	--
Lost-Wood Divide (A)	14F3	8750	1/28	40	10.8	30.1	--
North Fork Meadow (A)	14F15	8150	1/28	29	8.6	18.5	--
Slickrock (A)	13F14	8640	1/28	41	11.6	29.2	--
Stickney Mill (A)	14F2	7500	1/28	15	4.4	12.7	--
Twin Rocks (A)	13F15	8100	1/28	41	11.6	--	--
White Knob	13F1	7700	1/25	18	4.7	12.8	4.7*

LITTLE WOOD RIVER

Garfield Rgr. Sta.	13F4	6554	1/28	27	7.2	17.5	7.0*
Muldoon	13F5	6300	1/29	25	6.1	12.4	5.5*
Porcupine (A)	14F14	8350	1/28	45	12.8	26.1	--
Swede Peak (A)	13F9	7500	1/28	47	13.9	26.9	11.2*

BIG WOOD RIVER

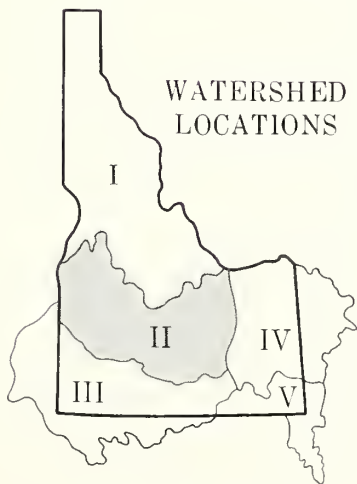
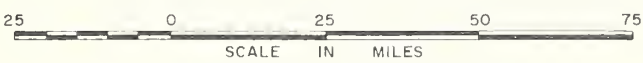
Camas Creeks Div. (A)	15F9	5720	1/28	18	4.6	8.9	--
#Couch Summit (A)	14F10	6950	1/28	40	10.8	19.2	13.1*
Dollarhide Summit (A)	14F8	8620	1/28	43	11.7	36.3	17.6*
Galena	14F1	7500	1/31	38	11.2	29.8	12.8*
Galena Summit	14F12	8795	1/29	43	12.2	32.0	15.1*
Graham Ranch	14F5	6200	2/1	33	8.6	22.2	9.2
#Lost Wood Divide (A)	14F3	8750	1/28	40	10.8	30.1	--
Mount Baldy	14F9	9000	1/31	42	11.4	31.2	13.6*
Soldier Rgr. Sta.	14F11	6100	1/31	28	7.2	14.6	7.9*

CANYON-LONG TOM-CAMAS CREEKS

#Camas Creeks Div. (A)	15F9	5720	1/28	18	4.6	8.9	--
#Danskin (A)	15F10	5650	1/28	22	5.7	16.7	--
Little Camas Flat (A)	15F12	4950	1/28	5	1.3	4.7	--
Long Tom (A)	15F13	4550	1/28	1	T	0.7	--
#Willow Creek Cabin (A)	15F11	4710	1/28	1	T	2.2	--

(b) 1948-62, 15 year period. # Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

MIDDLE SNAKE RIVER BASIN NORTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- † Aero! Snow Depth Gage
- ▶ Soil Moisture Station

INDEX to SNOW COURSES

NO.	STATE	NAME	SEC. OR LAT.	TWP. OR AND	RGE. LONG.	ELEV.	NO.	STATE	NAME	SEC.	TWP. OR AND	RGE.	ELEV
MIDDLE SNAKE RIVER BASIN							BOISE RIVER						
NORTHSIDE							15F4A	I	Atlanta Summit	29	5N	10E	7500
LITTLE LOST RIVER							15F2M	I	Bad Bear	35	7N	6E	5500
13E5M	I	Fairview Guard Station	27	12N	26E	6750	16F4	I	Bogus Basin	32	5N	3E	5360
13E3	I	Lost-Garfield	3	11N	26E	6600	16F5m	I	Bogus Basin Road	36	5N	2E	4830
13E6	I	Moonshine	31	13N	26E	7450	14F10A	I	Couch Summit	9	2N	14E	6950
13E4	I	Sawmill Canyon	17	12N	26E	6900	15F10a	I	Danskin	17	1N	7E	5650
13E7MA	I	Wet Creek Summit	15	8N	25E	8175	16F1	I	Deadman Gulch	24	7N	3E	5600
BIG LOST RIVER							15E9A	I	Jackson Peak	7	8N	9E	7000
13F3	I	Bear Canyon	26	5N	21E	8600	15FLM	I	Moore's Creek Summit	19	7N	7E	6100
13F13a	I	Cherry Creek Pass	7	5N	23E	8900	15F6	I	Prairie	13	2N	7E	4900
13F2A	I	Copper Basin	24	6N	21E	8000	15F3A	I	Road Creek	5	5N	8E	5550
13F11	I	Iron Bog	23	4N	22E	7650	15F5A	I	Trinity Mountain	7	3N	9E	7400
13F12	I	Leadbelt	34	4N	23E	6800	15F11a	I	Willow Creek Cabin	26	1N	6E	4710
14F3A	I	Lost Wood Divide	19	6N	19E	8750	CANYON CREEK						
14F15a	I	North Fork Meadow	20	7N	18E	8150	15F7	I	Bennett Mountain	7	2S	9E	6650
13F14	I	Slickrock	17	4N	22E	8640	15F8	I	Dixie Hill	13	2S	8E	5230
14F2A	I	Stickney Mill	9	6N	19E	7500	15F12a	I	Little Camas Flat	21	1S	9E	4950
13F15a	I	Twin Rocks	22	4N	22E	8100	15F13a	I	Long Tom	19	1S	8E	4550
13F1	I	White Knob	25	7N	23E	7700	PAYETTE RIVER						
BIG WOOD RIVER							16F2M	I	Bogus Basin	16	5N	3E	6120
15F9a	I	Camas Creeks Divide	11	2S	9E	5720	15E8	I	Cozy Cove	19	11N	7E	5900
14F8A	I	Dollarhide Summit	16	3N	15E	8620	15E3	I	Crawford Ranger Station	21	14N	4E	4800
14F1M	I	Galena	3	6N	15E	7300	15E10	I	Deadwood Airstrip	8	11N	7E	5440
14F12M	I	Galena Summit	33	7N	15E	8795	15E7	I	Deadwood Dam	8	11N	7E	5290
14F5	I	Graham Ranch	10	5N	17E	6200	15E4A	I	Deadwood Summit	23	14N	7E	7000
14F7	I	Mascot Mine	8	4N	20E	7900	16E7a	I	Greenfield Flat	1	13N	2E	7370
14F9	I	Mount Baldy	26	4N	17E	9000	16E4	I	High Valley Summit	9	10N	2E	5170
14F11	I	Soldier Ranger Station	19	2N	14E	6100	15E1	I	Lake Fork	3	18N	4E	6000
LITTLE WOOD RIVER							16E1	I	Rock Flat Summit	1	18N	2E	5200
13F4M	I	Garfield Ranger Station	11	3N	21E	6554	15E5A	I	Silver Creek Ridge	24	12N	5E	5700
13F5	I	Muldoon	25	3N	21E	6300	15D2A	I	Squaw Meadow	5	21N	4E	5800
14F13m	I	Niggerhead	26	2N	20E	5450	16E3	I	Tripod Summit	17	11N	3E	5200
14F14a	I	Porcupine	30	4N	20E	8350	WEISER RIVER						
13F9A	I	Swede Peak	4	3N	21E	7500	16D1	I	Boulder Creek	15	20N	1W	5500
FISH CREEK							16E6a	I	Mica Ridge	15	15N	2E	6800
13F10	I	Iron Mine Creek	32	3N	23E	6370	16E2	I	Placer Creek	15 & 16	17N	3W	6000
13F6	I	Telfer Ranch	12	2N	22E	6000	16E5a	I	Squaw Flat	32	17N	2E	6230

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7 m	SOIL MOISTURE STATION ONLY.
10J7 a	AERIAL MARKER ONLY.
10J7 p	STORAGE PRECIPITATION GAGE ONLY.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

BOISE RIVER

Atlanta Summit (A)	15F4	7500	1/28	70	21.5	50.1	20.9*
Bad Bear	15F2	5500	1/31	33	8.5	19.9	--
#Bogus Basin	16F2	6120	2/1	36	10.4	28.2	15.1
Bogus Basin Road	16F4	5360	2/1	11	3.1	8.6	2.5*
#Camas Creeks Div. (A)	15F9	5720	1/28	18	4.6	8.9	--
Couch Summit (A)	14F10	6950	1/28	40	10.8	19.2	13.1*
Danskin (A)	15F10	5650	1/28	22	5.7	16.7	--
#Dollarhide Summit (A)	14F8	8620	1/28	43	11.7	36.3	17.6*
Jackson Peak (A)	15E9	7000	1/28	65	20.0	40.7	20.5*
#Little Camas Flat (A)	15F12	4950	1/28	5	1.3	4.7	--
#Long Tom (A)	15F13	4550	1/28	1	T	0.7	--
Moore's Creek Summit	15F1	6100	1/31	58	17.8	38.3	20.9
Prairie	15F6	5600	1/29	12	2.0	12.1	4.6*
Road Creek (A)	15F3	6800	1/28	27	7.0	13.0	7.8*
#Soldier Rgr. Sta.	14F11	6100	1/31	28	7.2	14.6	7.9*
Trinity Mountain (A)	15F5	7400	1/28	81	25.8	53.9	29.1*
Trinity Mountain (SP)	15F5	7400	2/1	--	25.2	--	--
Vienna Mine (A)	14F4	8900	1/28	51	14.5	40.2	--
Willow Creek Cabin (A)	15F11	4710	1/28	1	T	2.2	--

PAYETTE RIVER

#Big Creek Summit	15E2	6600	1/30	64	19.4	42.1	23.9*
Bogus Basin	16F2	6120	2/1	36	10.4	28.2	15.1
#Brundage Mountain	16D6	7700	1/27	84	26.8	--	--
Cozy Cove	15E8	5900	1/27	38	11.1	19.0	11.0
Crawford Rgr. Sta.	15E3	4800	1/31	22	6.5	10.2	5.5*
Deadwood Airstrip	15E10	5440	1/28	39	11.8	18.2	9.6*
Deadwood Dam	15E7	5500	1/27	40	11.8	21.1	11.7
Deadwood Summit (A)	15E4	7000	1/28	96	30.6	58.5	34.8*
Greenfield Flat (A)	16E7	7370	1/28	65	19.7	50.5	--
High Valley Summit	16E4	5170	2/1	24	5.9	14.4	--
#Jackson Peak (A)	15E9	7000	1/28	65	20.0	40.7	20.5*
Lake Fork	15E1	6000	1/27	35	8.2	--	--
#Mica Ridge (A)	16E6	6800	1/28	69	20.9	39.7	--
Rock Flat Summit	16E1	5200	1/27	38	9.2	19.6	12.6
Silver Creek Ridge (A)	15E5	5700	1/28	42	12.4	20.8	--
#Squaw Flat (A)	16E5	6230	1/28	61	18.5	31.0	--
Tripod Summit	16E3	5200	2/1	36	9.1	21.0	--

WEISER RIVER

Boulder Creek	16D1	5500	1/27	52	16.4	29.0	--
Mica Ridge (A)	16E6	6800	1/28	69	20.9	39.7	--
Squaw Flat (A)	16E5	6230	1/28	61	18.5	31.0	--

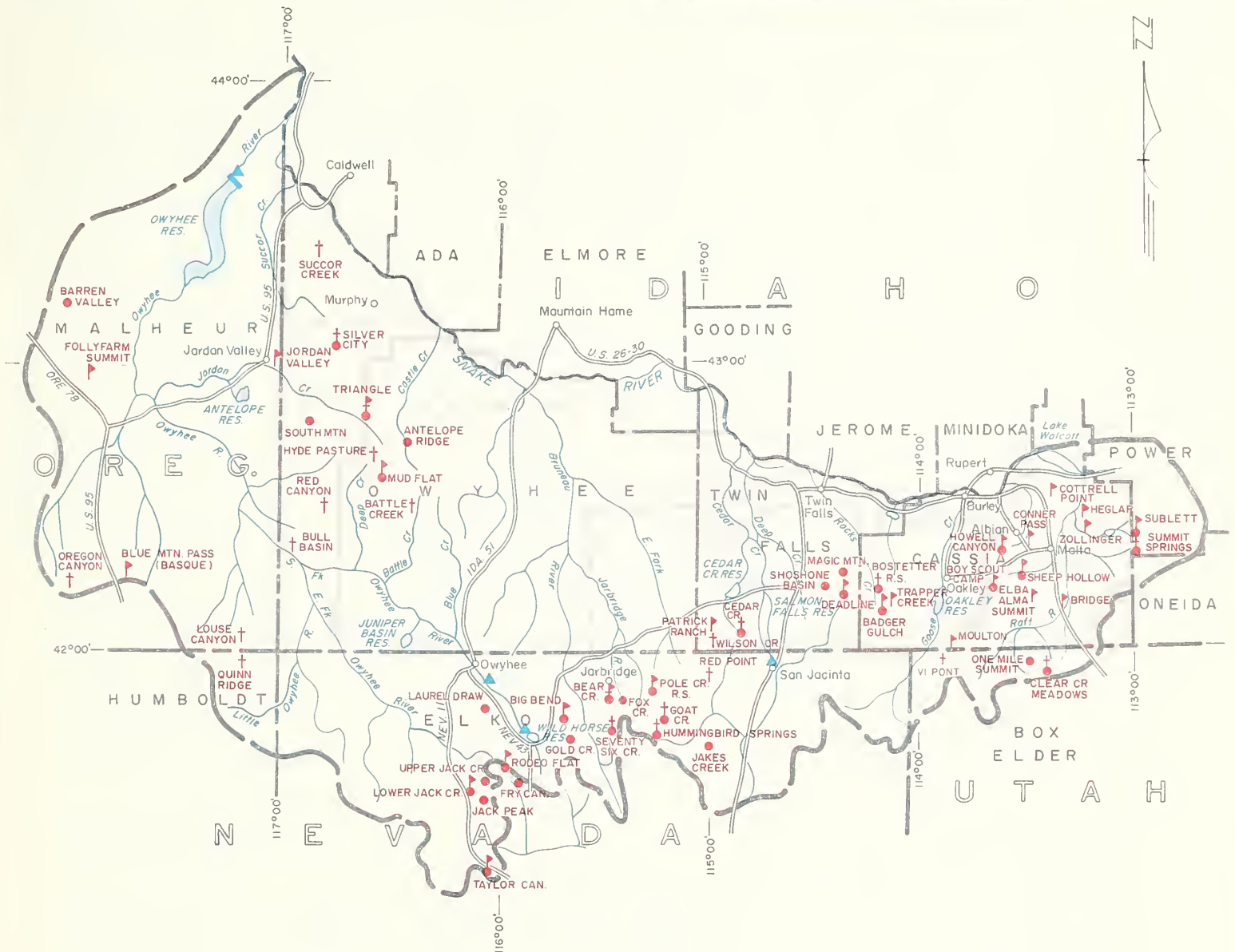
(b) 1948-62, 15 year period. # Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>LITTLE WOOD RIVER</u>							
Garfield R. S.	6554	36	5.2	1/28	2.8	3.8	3.8
<u>BIG WOOD RIVER</u>							
Galena	7300	48	10.1	1/31	6.4	--	7.8
Galena Summit	8795	48	5.8	1/29	2.0	--	1.5
<u>BOISE RIVER</u>							
Bad Bear	5500	66	6.3	1/31	4.9	5.5	5.3
Bogus Basin Road	4830	48	7.1	2/1	4.6	6.0	5.3
Moore's Creek Summit	6100	60	8.8	1/31	7.5	9.2 ^j	7.5
j January Measurement							

MIDDLE SNAKE RIVER BASIN SOUTHSIDE

25 0 25 50 75
SCALE IN MILES



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- + Aerial Snow Depth Gage
- ▶ Soil Moisture Station

WATERSHED LOCATIONS



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR AND	LONG.	

MIDDLE SNAKE RIVER BASIN SOUTHSIDE

RAFT RIVER

13G2A	I	Boy Scout Camp	12	14S	23E	7600
13G11m	I	Bridge	7	15S	27E	4750
13H2A	U	Clear Creek Meadows	26	14N	14W	9050
13G6m	I	Conner Pass	35	12S	25E	5700
13G7m	I	Cottrell Point	24	10S	25E	4490
13G10m	I	Elba-Almo Summit	29	14S	25E	5690
13G8m	I	Heglar	19	11S	28E	4590
13G1M	I	Howell Canyon	2	13S	24E	8000
13G12m	I	Moulton	27	16S	23E	5950
13H1	U	One Mile Summit	19	14N	14W	7330
13G5M	I	Sheep Hollow	4	14S	24E	6200
13G3M	I	Sublett	8	12S	30E	6000
13G4A	I	Summit Springs	15	13S	30E	8500
13G9m	I	Zollinger	2	13S	28E	5000

GOOSE - TRAPPER CREEK

14G3M	I	Badger Gulch	24	15S	19E	6660
14G1A	I	Bostetter Ranger Station	35	14S	19E	7500
14G7m	I	Trapper Creek	2	15S	20E	5300
13H3a	U	Vi Pont	17	14N	17W	7670

SALMON FALLS CREEK

14G5A	I	Cedar Creek	25	15S	13E	7000
14G4M	I	Deadline	25	14S	18E	6900
15H13A	N	Goat Creek	31	46N	60E	8800
14H1	N	Jakes Creek	6	42N	62E	7000
14G2	I	Magic Mountain	14	14S	18E	6700
15G1m	I	Patrick Ranch	23	15S	12E	5720
15H18a	N	Red Point	15	47N	61E	7940
14G6	I	Shoshone Basin	24	14S	17E	5740
15G2a	I	Wilson Creek	24	16S	12E	7500

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR AND	LONG.	

BRUNEAU RIVER

15H1MA	N	Bear Creek	31	46N	58E	7800
15H2	N	Fox Creek	33	46N	58E	6800
15H15A	N	Hummingbird Springs	6	45N	60E	8945
15H14M	N	Pole Creek Ranger Station	13	46N	59E	8330

OWYHEE RIVER

16G6	I	Antelope Ridge	20	8S	1E	5900
18F5	O	Barren Valley	26	27S	38E	4200
16G9a	I	Battle Creek	10	11S	1E	5700
15H4M	N	Big Bend	30	45N	56E	6700
17G2m	O	Blue Mountain Pass (Basque)	4	38S	42E	5290
16G10a	I	Bull Basin	29	12S	6W	5600
18G3m	O	Folly Farm Summit	8	30S	38E	4450
15H7	N	Fry Canyon	31	43N	54E	6700
15H5	N	Gold Creek	31	45N	56E	6600
16G5a	I	Hyde Pasture	SE 1/4 31	8S	2W	5800
16H4	N	Jacks Peak	28	42N	53E	8420
17G3m	O	Jordan Valley	2	30S	46E	4390
16H5	N	Laurel Draw	20	45N	53E	6700
17G4a	O	Louse Canyon	27	40S	44E	6440
16H1M	N	Lower Jack Creek	18	42N	53E	6800
16G7M	I	Mud Flat	34	9S	2W	5500
17G5a	O	Oregon Canyon	9	40S	40E	6950
17H6a	N	Quinn Ridge	9	47N	41E	6300
16G11a	I	Red Canyon	32	11S	4W	6650
15H6M	N	Rodeo Flat	36	43N	53E	6800
16F3A	I	Silver City	6	5S	3W	6400
16G1	I	South Mountain	35	7S	5W	6340
16F6a	I	Succor Creek	25	3S	5W	6100
15H9M	N	Taylor Canyon	35	39N	53E	6200
16G4MA	I	Triangle	N 1/2 25	7S	3W	5150
16H2	N	Upper Jack Creek	9	42N	53E	7250

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7M	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7 m	SOIL MOISTURE STATION ONLY.
10J7 a	AERIAL MARKER ONLY.
10J7 p	STORAGE PRECIPITATION GAGE ONLY.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

MIDDLE SNAKE RIVER BASIN - SOUTHSIDE

RAFT RIVER

Boy Scout Camp (A)	13G2	7600	1/26	34	8.9	26.1	--
Clear Creek Meadows (A)	13H2	9050	1/26	67	17.5	26.9	--
Howell Canyon	13G1	8000	1/28	41	10.7	31.0	16.8*
Sublett	13G3	6000	1/26	28	6.3	--	--
Summit Springs (A)	13G4	8500	1/26	29	6.4	9.2	--

GOOSE CREEK

Badger Gulch	14G3	6660	1/25	24	5.3	11.0	--
Bostetter Rgr. Sta. (A)	14G1	7500	1/26	37	9.7	22.7	10.9*
Vi Pont (A)	13H3	7670	1/26	35	9.3	16.5	--

SALMON FALLS CREEK

#Bear Creek (A)	15H1	7800	1/26	37	9.8	21.1	11.7*
Cedar Creek (A)	14G5	7000	1/26	13	3.0	8.4	6.8*
Deadline	14G4	6900	1/29	36	8.2	25.6	14.5*
Goat Creek (A)	15H13	8800	1/26	25	4.1	14.2	10.0*
#Hummingbird Springs (A)	15H15	8945	1/26	36	9.5	27.3	10.7*
Magic Mountain	14G2	6700	1/25	38	6.2	20.0	11.8*
#Pole Creek R. S.	15H14	8330	1/28	31	8.2	16.4	10.5*
Red Point (A)	15H18	7940	1/26	13	3.4	6.9	--
Shoshone Basin	14G6	5740	1/31	9	1.6	2.6	3.9*
Wilson Creek (A)	15G2	7500	1/26	21	5.6	12.3	--

BRUNEAU RIVER

Bear Creek (A)	15H1	7800	1/26	37	9.8	21.1	11.7*
Hummingbird Springs (A)	15H15	8945	1/26	36	9.5	27.3	10.7*
Pole Creek Rgr. Sta.	15H14	8330	1/28	31	8.2	16.4	10.5*
#Seventy-six Creek (A)	15H3	7100	1/27	21	4.7	8.1	7.4*

OWYHEE RIVER

Battle Creek (A)	16G9	5700	1/27	7	1.3	2.4	--
#Bear Creek (A)	15H1	7800	1/26	37	9.8	21.1	11.7*
Bull Basin (A)	16G10	5600	1/27	2	0.4	0.0	--
Hyde Pasture (A)	16G5	5800	1/27	12	2.3	4.8	--
Mud Flat	16G7	5500	1/31	14	2.6	4.6	--
Red Canyon (A)	16G11	6650	1/27	14	3.4	6.0	--
#Seventy-six Creek (A)	15H3	7100	1/27	21	4.7	8.1	7.4*
Silver City	16F3	6400	1/29	27	6.2	18.4	9.7*
South Mountain	16G1	6340	1/28	15	3.7	12.4	7.4
Succor Creek (A)	16F6	6100	1/27	13	3.1	6.0	--
Triangle (A)	16G4	5150	1/27	T	T	0.8	--

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
NAME	NO.	ELEVATION	DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
						LAST YEAR	AVERAGE ^b

OWYHEE RIVER (Cont'd)

Vaught Ranch (A)	16G12	5950	1/27	6	1.1	--	--
War Eagle (A)	16G13	7700	1/27	45	10.8	--	--

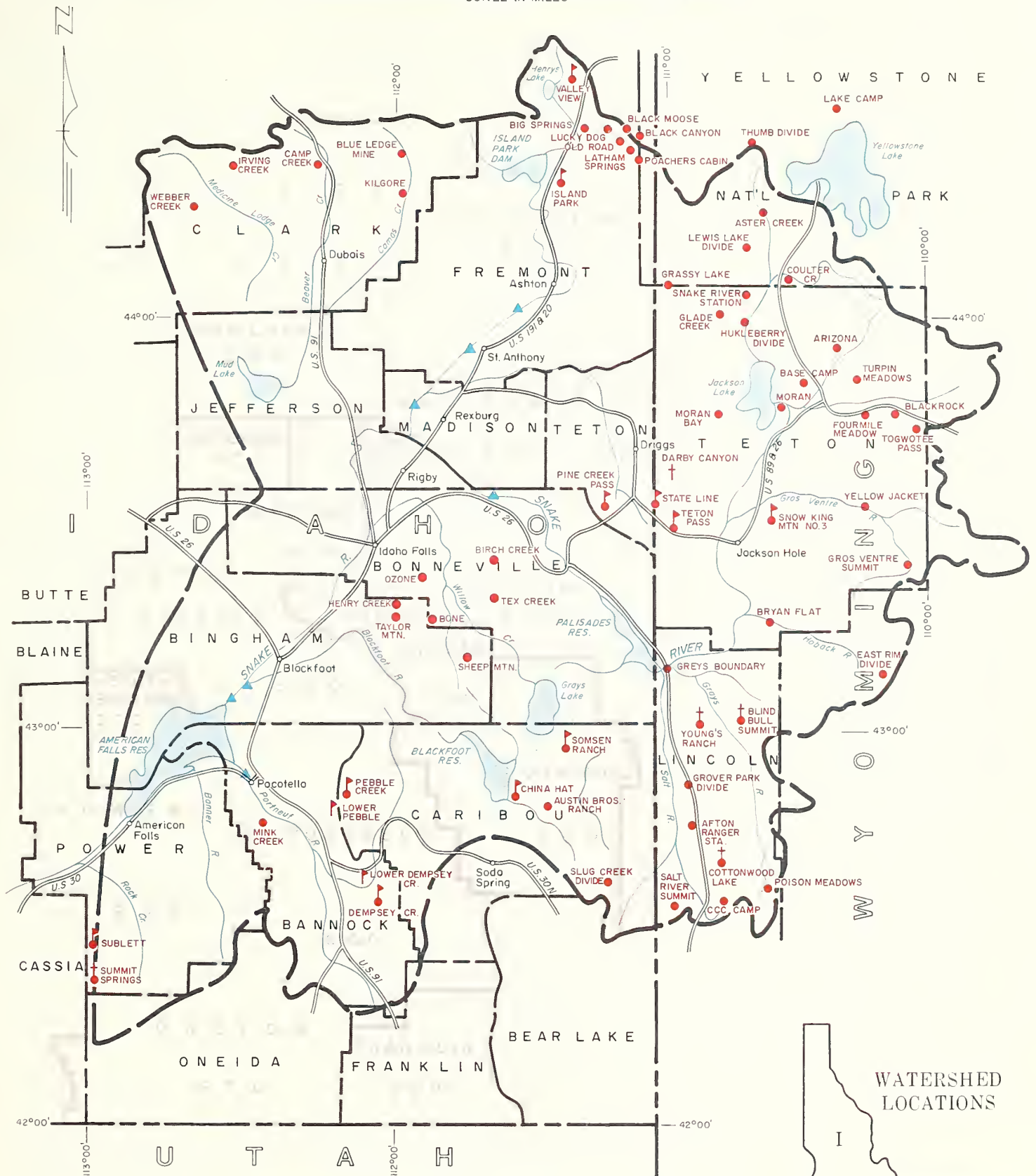
SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
NAME	ELEVATION	DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
<u>RAFT RIVER</u>							
Conner Pass	5700	36	9.8	1/28	8.8	10.2	7.2
Howell Canyon	8000	48	11.5	1/28	8.4	5.3	4.4
Sheep Hollow	6200	36	7.5	11/1	3.6*	7.0 ^m	6.4
Sublett	6000	36	7.0	1/26	6.6	7.8 ^m	6.9
<u>GOOSE CREEK</u>							
Badger Gulch	6660	36	7.0	12/30	5.4 ^j	7.0	6.9
Trapper Creek	5300	36	10.0	1/25	5.4	8.5	5.1
<u>SALMON FALLS CREEK</u>							
Deadline	6900	36	7.4	1/29	5.7	6.9	--
Patrick Ranch	5720	36	7.7	1/28	4.6	--	3.9 ^j
Pole Creek R. S.	8330	48	12.7	11/5	10.2*	8.6	--
<u>BRUNEAU RIVER</u>							
Bear Creek	7800	72	16.9	11/5	10.5*	13.7 ^m	9.9 ^m
<u>OWYHEE RIVER</u>							
Mud Flat	5500	48	12.8	1/31	10.7	13.4	10.7
Triangle	5150	48	16.2	11/16	14.4*	16.4 ^m	9.7
* Fall Measurement							
j January Measurement							
m March Measurement							

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

UPPER SNAKE RIVER BASIN

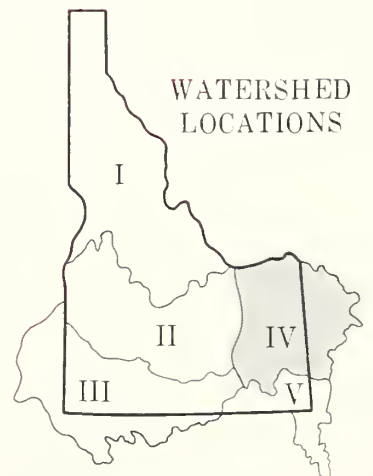
25 0 25 50
SCALE IN MILES



LEGEND

- | | | | |
|--|---------------------------------|--|------------------------|
| | Watershed Boundary | | Snow Course |
| | Soil Conservation District Bdry | | Aerial Snow Depth Gage |
| | County Boundary | | Soil Moisture Station |
| | Forecast Point | | |

WATERSHED LOCATIONS



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR AND	LONG.	

UPPER SNAKE RIVER BASIN

SNAKE RIVER - WYOMING

10G4	Wy	Afton Ranger Station	30	32N	118W	6200
10F1	Wy	Arizona	3	46N	115W	6850
10E8	Wy	Aster Creek	44°17'		110°38'	7700
10F2	Wy	Base Camp	20	46N	113W	6900
10F7	Wy	Blackrock	4	44N	111W	3600
10G2A	Wy	Blind Bull	6	34N	115W	8750
10F14	Wy	Bryan Flat	9	38N	115W	6250
10E3	Wy	Canyon	44°44'		110°30'	7750
10G7	Wy	CCC Camp	9	29N	118W	7500
10G5A	Wy	Cottonwood Lake	25	31N	118W	7500
10E10	Wy	Coulter Creek	44°09'		110°33'	7600
10F17	Wy	East Rim Divide	32	37N	111W	7950
10F6	Wy	Four Mile Meadows	35	45N	112W	7770
10E13	Wy	Glade Creek	12	48N	116W	7200
10F18	Wy	Greys Boundary	33	37N	118W	5800
10F19	Wy	Gros Ventre Summit	36	40N	111W	8750
10G3	Wy	Grover Park Divide	27	33N	118W	7500
10E14	Wy	Huckleberry Divide	32	48N	115W	7300
10E4	Wy	Lake Camp	44°34'		110°24'	7850
10E9	Wy	Lewis Lake Divide	44°13'		110°40'	7900
10F4	Wy	Moran	S & 17	45N	114W	6800
10F3	Wy	Moran Bay	14	45N	116W	6800
10E2	Wy	Norris Basin	44°44'		110°42'	7500
10G6	Wy	Poison Meadows	29	30N	116W	8500
10G8	Wy	Salt River Summit	32	29N	118W	7900
10E12	Wy	Snake River Station	9	48N	115W	6780
10F20	Wy	Snow King Mountain #3	4	40N	117W	7600
10E5	Wy	Sylvan Pass	12	52N	110W	7100
10E7	Wy	Thumb Divide	44°22'		110°35'	7900
10F9	Wy	Togwotee Pass	29	44N	110W	9600
10F5	Wy	Turpin Meadows	14	45N	112W	6930
10G1A	Wy	Young's Ranch	26	34N	116W	6530

HENRYS FORK RIVER

11E9	I	Big Springs	34	14N	44E	6500
11E18	I	Black Canyon	11	13N	45E	7850
11E19	I	Black Moose	33	14N	45E	3125
10E15	Wy	Grassy Lake	6	48N	117W	7230
11E10M	I	Island Park	29	13N	43E	6315
11E16	I	Latham Springs	9	13N	45E	7650
11E14	I	Lucky Dog	2	13N	45E	6900
11E15	I	Old Road	12	13N	44E	7250
11E17	I	Poacher's Cabin	11	13N	45E	8000
11E8M	I	Valley View	7	15N	44E	6500

NO.	STATE	NAME	SEC.	TWP.	RGE.	ELEV.
			LAT.	OR AND	LONG.	

TETON RIVER

10F21a	Wy	Darby Canyon	28	43N	118W	8250
11F2M	I	Pine Creek Pass	24	3N	44E	6750
11F1M	I	State Line	32	3N	46E	6400
10F13M	Wy	Teton Pass	24	41N	118W	8500

CAMAS - BEAVER CREEK

11E11	I	Blue Ledge Mine	27	13N	38E	6700
12E3	I	Camp Creek	21	13N	36E	6800
11E12	I	Kilgore	6	12N	39E	6200

MEDICINE LODGE CREEK

12E4	I	Irving Creek	8	13N	33E	7035
12E5	I	Webber Creek	23	12N	32E	6700

WILLOW CREEK

11F3	I	Birch Creek	36	2N	41E	6300
11F8	I	Bone	29	1S	40E	6200
11F4	I	Ozone	14	1N	39E	5800
11F9	I	Sheep Mountain	32	2S	41E	6300
11F5	I	Tex Creek	6	1S	42E	6700

SAND CREEK

11F6	I	Henry Creek	7	1S	39E	5650
11F7	I	Taylor Mountain	19	1S	39E	6500

BLACKFOOT RIVER

11G3	I	Austin Brothers Ranch	28	7S	43E	6450
11G2M	I	China Hat	17	7S	42E	6300
11G5	I	Slug Creek Divide	15	10S	44E	7225
11G1M	I	Somsen Ranch	25	5S	43E	7000

PORTNEUF RIVER

12G5M	I	Dempsey Creek	17	10S	38E	6280
12G7m	I	Lower Dempsey	5	10S	38E	5210
12G6m	I	Lower Pebble	7	8S	38E	5800
12G1	I	Mink Creek	33	7S	34E	6300
12G2M	I	Pebble Creek	34	7S	37E	6550

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7 m	SOIL MDISTURE STATION ONLY.
10J7 a	AERIAL MARKER ONLY.
10J7 p	STORAGE PRECIPITATION GAGE ONLY.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

UPPER SNAKE RIVER BASINCAMAS-BEAVER CREEKS

Camp Creek	12E3	6800	1/28	24	5.6	13.3	6.5
Kilgore	11E12	6200	1/28	25	5.8	10.6	6.4

MEDICINE LODGE CREEK

Irving Creek	12E4	7035	1/28	16	3.2	7.6	--
Webber Creek	12E5	6700	1/27	16	2.4	7.7	--

HENRY'S FORK RIVER

Big Springs	11E9	6500	1/28	41	10.5	22.2	13.7
Black Canyon	11E18	7850	1/27	68	20.4	--	--
Black Moose	11E19	8125	1/27	75	23.6	--	--
Grassy Lake	10E15	7230	1/28	65	19.1	32.8	22.3*
Island Park	11E10	6315	1/28	36	8.4	19.4	10.8
Latham Springs	11E16	7650	1/27	63	18.6	--	--
Lucky Dog	11E14	6900	1/27	49	11.8	--	--
Old Road	11E15	7250	1/27	50	14.0	--	--
Poacher's Cabin	11E17	8000	1/27	64	19.4	--	--
Valley View	11E8	6500	1/28	34	8.4	23.5	9.6

TETON RIVER

Darby Canyon (A)	10F21	8250	1/28	36	9.0	16.3	--
Pine Creek Pass	11F2	6750	1/28	32	8.0	15.8	--
State Line	11F1	6400	1/28	25	6.4	13.0	9.8
Teton Pass	10F13	8500	1/28	46	13.5	28.7	22.4

WILLOW CREEK

Aspen Grove	11F10	6600	2/2	30	6.0	--	--
Birch Creek	11F3	6800	2/2	26	5.0	12.2	--
Bone	11F8	6200	2/3	21	4.9	9.1	--
Ozone	11F4	5800	2/3	13	1.7	1.8	--
Sheep Mountain II	11F9	6600	2/3	29	7.2	--	--
Tex Creek	11F5	6700	1/26	23	4.0	10.9	--

SAND CREEK

Henry Creek	11F6	5650	1/28	17	4.3	3.1	--
Taylor Mountain	11F7	6500	1/28	20	4.2	8.2	--

BLACKFOOT RIVER

Austin Bros. Ranch	11G3	6450	1/25	22	5.0	8.3	5.2*
China Hat	11G2	6300	1/25	23	4.8	5.4	4.9*

(b) 1948-62, 15 year period. " Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

BLACKFOOT RIVER (Cont'd)

Slug Creek Divide	11G5	7225	1/27	34	8.7	19.2	--
Somsen Ranch	11G1	7000	1/26	32	7.3	14.3	7.8*

PORTNEUF RIVER

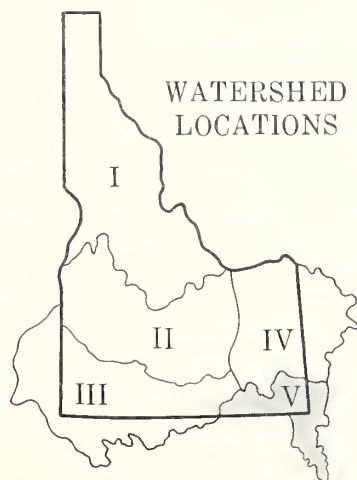
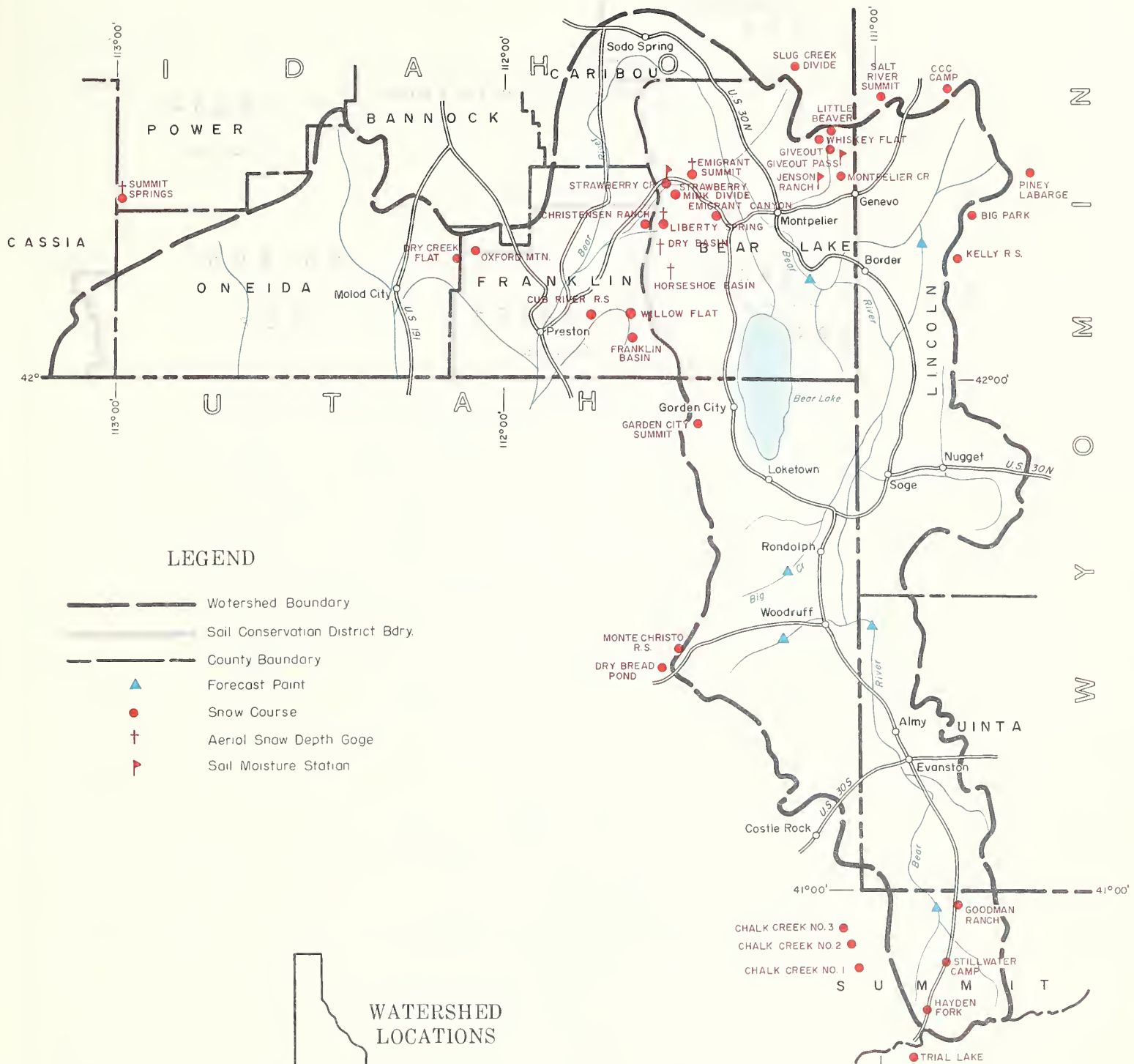
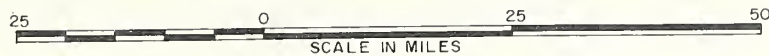
Dempsey Creek	12G5	6280	2/4	27	5.6	10.0	7.2*
Lower Pebble	12G6	5800	2/5	28	6.9	--	--
Pebble Creek	12G2	6550	2/5	31	7.8	15.8	9.2*

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>HENRYS FORK RIVER</u>							
Island Park	6315	48	9.9	1/28	8.8	11.1	8.4
Valley View	6500	48	13.3	1/28	8.0	12.6	8.1
<u>TETON RIVER</u>							
Pine Creek Pass	6750	48	13.3	1/28	5.7	6.9	9.2
State Line	6400	48	14.8	1/28	12.5	13.0	12.7
Teton Pass	8500	48	10.5	1/28	10.0	7.2	10.4
<u>PORTNEUF RIVER</u>							
Lower Pebble	5800	36	7.6	2/5	7.7	6.6	7.9
Pebble Creek	6550	48	7.2	2/5	6.0	3.2	5.7

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

GREAT BASIN



INDEX to SNOW COURSES

NO.	STATE	NAME	SEC.	TWP	RGE.	ELEV.
			LAT.	OR ANO	LONG.	

GREAT BASIN

BEAR RIVER

10G11	Wy	Big Park	7	27N	117W	8700
11H13MP	U	Dry Bread Pond	19	8N	4E	8230
11G7	I	Emigration Canyon (mouth)	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6	U	Goodman Ranch	19	3N	10E	7900
10J7	U	Hayden Fork	1	1S	9E	9300
10G12	Wy	Kelly Ranger Station	13	26N	118W	8200
11H12P	U	Monte Cristo R. S.	3	8N	4E	8960
10G10	Wy	Piney LaBarge	19	29N	114W	8820
10J17P	U	Stillwater Camp	32	2N	10E	8550

MONTPELIER CREEK

11G16	I	Giveout	35	11S	45E	6840
11G17m	I	Giveout Pass	2	12S	45E	7025
11G19m	I	Jenson Ranch	15	12S	45E	6580
11G20	I	Little Beaver	26	11S	45E	6970
11G18	I	Montpelier Creek	22	12S	45E	6570
11G21	I	Whiskey Flat	26	11S	45E	6985

MINK CREEK

11G11	I	Christensen Ranch	27	13S	41E	5600
11G14a	I	Dry Basin	30	13S	42E	7900
11G6M	I	Emigrant Summit	21	12S	42E	7350
11G15a	I	Horseshoe Basin	31	13S	42E	8000
11G13A	I	Liberty Spring	7	13S	42E	8600
11G9M	I	Strawberry Creek	9	13S	41E	5800
11G10	I	Strawberry Mink Divide	14	13S	41E	6800

CUB RIVER

11G12	I	Cub River Ranger Station	5	15S	41E	5400
11G8	I	Franklin Basin	1	16S	41E	8000
11G4P	I	Willow Flat	2	15S	41E	6100

MALAD RIVER

12G4	I	Dry Creek Flat	31	13S	37E	6350
12G3	I	Oxford Mountain	32	13S	37E	6800

LEGEND

Numbering System (example)

10J7	SNOW COURSE ONLY.
10J7P	SNOW COURSE AND PRECIPITATION GAGE.
10J7M	SNOW COURSE AND SOIL MOISTURE STATION.
10J7A	SNOW COURSE AND AERIAL MARKER.
10J7MA	SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.
10J7MP	SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE.
10J7 m	SOIL MOISTURE STATION ONLY.
10J7 a	AERIAL MARKER ONLY.
10J7 p	STORAGE PRECIPITATION GAGE ONLY.

SNOW

DRAINAGE BASIN and SNOW COURSE			CURRENT INFORMATION			PAST RECORD	
			DATE OF SURVEY	SNOW DEPTH (Inches)	WATER CONTENT (Inches)	WATER CONTENT (Inches)	
NAME	NO.	ELEVATION				LAST YEAR	AVERAGE ^b

GREAT BASIN

BEAR RIVER

Emigrant Summit	11G6	7350	1/28	45	11.4	29.4	--
Emigration Canyon	11G7	6500	1/28	23	5.5	11.0	--

Montpelier Creek

Giveout	11G16	6840	1/27	29	6.4	14.8	--
Little Beaver	11G20	6970	1/27	34	8.2	17.7	--
Montpelier Creek	11G18	6570	1/27	23	5.1	10.8	--
Whiskey Flat	11G21	6985	1/27	25	6.3	13.1	--

Mink Creek

Christensen Ranch	11G11	5600	1/28	22	5.1	7.5	6.4*
Dry Basin (A)	11G14	7900	1/29	72	18.2	37.8	--
#Emigrant Summit	11G6	7350	1/28	45	11.4	29.4	--
Horseshoe Basin (A)	11G15	8000	1/29	48	12.1	30.9	--
Liberty Spring (A)	11G13	8600	1/29	73	18.5	46.8	--
Strawberry Creek	11G9	5800	1/28	22	5.0	11.2	7.7*
Strawberry Mink Divide	11G10	6800	2/4	37	9.2	24.4	13.5*

Cub River

Cub River R. S.	11G12	5400	1/31	23	5.0	6.6	6.5*
Willow Flat	11G4	6100	2/1	34	7.8	15.4	9.7*

MALAD RIVER

Dry Creek Flat	12G4	6350	1/31	17	4.0	8.0	4.7*
Oxford Mountain	12G3	6800	1/31	21	4.4	12.0	6.2*

SOIL MOISTURE

STATION		PROFILE (Inches)		SOIL MOISTURE (Inches)			
		DEPTH	CAPACITY	DATE	THIS YEAR	LAST YEAR	2 YEARS AGO
NAME	ELEVATION						
<u>BEAR RIVER</u>							
Emigrant Summit	7350	36	8.2	1/28	5.2	4.1	5.7
Strawberry Creek	5800	48	12.7	1/28	6.0	12.1	8.0
<u>Montpelier Creek</u>							
Giveout Pass	7025	48	12.6	1/27	8.4	--	--
Jenson Ranch	6580	48	18.7	1/27	11.0	17.8	10.6

(b) 1948-62, 15 year period. * Not located directly on this drainage. * Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

Agencies and Organizations Cooperating in Idaho Snow Surveys

GOVERNMENT AGENCIES

Canada:

Department of Lands, Forests, and
Water Resources, British Columbia
Department of Resources and Development,
Water Resources Division

States:

Idaho State Reclamation Engineer
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
Forest Service
Agricultural Research Service

U. S. Department of Commerce
Weather Bureau

U. S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Geological Survey
Indian Service
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

The Montana Power Company
Washington Water Power Company
Idaho Power Company
Utah Power and Light Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Boise Project Board of Control
Little Wood River Irrigation District
Jordan Valley Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Twin Lakes Irrigation Company
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control

PRIVATE CORPORATIONS

Amalgamated Sugar Company

*Other organizations and individuals furnish valuable information for
snow survey reports. Their cooperation is gratefully acknowledged.*

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
P.O. BOX 38
BOISE, IDAHO 83701

OFFICIAL BUSINESS

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF AGRICULTURE

FIRST CLASS MAIL

FEDERAL - STATE - PRIVATE
COOPERATIVE SNOW SURVEYS

Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*

USDA NATIONAL AGRICULTURAL LIBRARY
CURRENT SERIAL RECORD
WASHINGTON, D.C. 20250